

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/586,998
Source: IFWP
Date Processed by STIC: 08/4/2006

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	SERIAL NUMBER: <u>10/586,998</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 ____ Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 ____ Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 ____ Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters , instead.	
4 ____ Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text .	
5 ____ Variable Length	Sequence(s) ____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 ____ PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 ____ Skipped Sequences (OLD RULES)	Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 ____ Skipped Sequences (NEW RULES)	Sequence(s) ____ missing. If intentional , please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 ____ Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa , and which residue n or Xaa represents.	
10 ____ Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence. (see item 11 below)	
11 ____ Use of <220>	Sequence(s) ____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules	
12 ____ PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 ____ Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid	



IFWP

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/586,998

DATE: 08/04/2006

TIME: 14:25:17

Input Set : A:\Sequence.txt

Output Set: N:\CRF4\08042006\J586998.raw

3 <110> APPLICANT: Icon Genetics AG
 4 Marillonnet, Sylvestre
 5 Thoeringer, Carola
 6 Klimyuk, Victor
 7 Gleba, Yuri
 9 <120> TITLE OF INVENTION: Two-component RNA virus-derived plant expression system
 11 <130> FILE REFERENCE: PCT-13097
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/586,998
 C--> 14 <141> CURRENT FILING DATE: 2006-07-21
 16 <150> PRIOR APPLICATION NUMBER: EP 04 001 460
 17 <151> PRIOR FILING DATE: 2004-01-23
 19 <160> NUMBER OF SEQ ID NOS: 20
 21 <170> SOFTWARE: PatentIn version 3.1
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 124
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Artificial Sequence
 28 <220> FEATURE:
 29 <223> OTHER INFORMATION: intron 1
 31 <400> SEQUENCE: 1
 32 gtaaattcctg gtccacactt ttacgataaa aacacaagat tttaaactat gaactgatca 60
 34 ataattcattc ctaaaagacc acacttttgt tttgtttcta aagtaatttt tactgtttata 120
 36 acag 124
 39 <210> SEQ ID NO: 2
 40 <211> LENGTH: 136
 41 <212> TYPE: DNA
 42 <213> ORGANISM: Artificial Sequence
 44 <220> FEATURE:
 45 <223> OTHER INFORMATION: intron 2
 47 <400> SEQUENCE: 2
 48 gtaagaggtc aaaagggttc cgcaatgac cctctttttt tgtttctcta gtttcaagaa 60
 50 tttgggtata tgactaactt ctgagtgttc cttgatgcat atttgtgatg agacaaatgt 120
 52 ttgttctatg ttttag 136
 55 <210> SEQ ID NO: 3
 56 <211> LENGTH: 150
 57 <212> TYPE: DNA
 58 <213> ORGANISM: Artificial Sequence
 60 <220> FEATURE:
 61 <223> OTHER INFORMATION: intron 3
 63 <400> SEQUENCE: 3
 64 gtaagtcttg catttggtta tgctccttgc atttttaggtg ttcgtcgctc ttccatttcc 60
 66 atgaatagct aagatttttt ttctctgcat tcattcttct tgcctcagtt ctaactgttt 120
 68 gtggtatttt tgttttaatt attgctacag 150

Does Not Comply
 Corrected Diskette Needed

Invalid Explanation.
 What is the Source of
 genetic Material?

P/s see
 Item 11
 on
 Error
 Summary
 Sheet.

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Input Set : A:\Sequence.txt

Output Set: N:\CRF4\08042006\J586998.raw

71 <210> SEQ ID NO: 4
 72 <211> LENGTH: 121
 73 <212> TYPE: DNA
 74 <213> ORGANISM: Artificial Sequence
 76 <220> FEATURE:
 77 <223> OTHER INFORMATION: intron 4
 79 <400> SEQUENCE: 4
 80 gtaaagcaac tgtgttttaa tcaatttctt gtcaggatat atggattata acttaatttt 60
 82 tgagaaatct gtagtatttg gcgtgaaatg agtttgcttt ttggtttctc ccgtgttata 120
 84 g 121

87 <210> SEQ ID NO: 5
 88 <211> LENGTH: 136
 89 <212> TYPE: DNA
 90 <213> ORGANISM: Artificial Sequence
 92 <220> FEATURE:
 93 <223> OTHER INFORMATION: intron 5
 95 <400> SEQUENCE: 5
 96 gtaaagtctc caactttcct ttaccatata aaactaaagt tcgaaacttt ttatttgatc 60
 98 aacttcaagg ccaccgatc tttctattcc tgattaattt gtgatgaatc catattgact 120
 100 tttgatgggt acgcag 136

103 <210> SEQ ID NO: 6
 104 <211> LENGTH: 121
 105 <212> TYPE: DNA
 106 <213> ORGANISM: Artificial Sequence
 108 <220> FEATURE:
 109 <223> OTHER INFORMATION: intron 6
 111 <400> SEQUENCE: 6
 112 gtctgtcttt cctatttcat atgtttaatc ctaggaattt gatcaattga ttgtatgtat 60
 114 gtcgatccca agactttctt gttcacttat atcttaactc tctctttgct gtttcttgca 120
 116 g 121

119 <210> SEQ ID NO: 7
 120 <211> LENGTH: 159
 121 <212> TYPE: DNA
 122 <213> ORGANISM: Artificial Sequence
 124 <220> FEATURE:
 125 <223> OTHER INFORMATION: intron 7
 127 <400> SEQUENCE: 7
 128 gtaaaatatt ggatgccaga cgatattctt tcttttgatt tgtaactttt tcctgtcaag 60
 130 gtcgataaat tttatttttt ttggtaaaag gtcgataatt tttttttgga gccattatgt 120
 132 aattttccta attaaactgaa ccaaaattat acaaaccag 159

135 <210> SEQ ID NO: 8
 136 <211> LENGTH: 109
 137 <212> TYPE: DNA
 138 <213> ORGANISM: Artificial Sequence
 140 <220> FEATURE:
 141 <223> OTHER INFORMATION: intron 8
 143 <400> SEQUENCE: 8
 144 gtaaggactt ctcatgaata ttagtggcag attagtgttg ttaaagtctt tggtagata 60
 146 atcgatgcct cctaattgtc catgttttac tggttttcta caattaaag 109

Same Error

RAW SEQUENCE LISTING

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Input Set : A:\Sequence.txt

Output Set: N:\CRF4\08042006\J586998.raw

149 <210> SEQ ID NO: 9
 150 <211> LENGTH: 117
 151 <212> TYPE: DNA
 152 <213> ORGANISM: Artificial Sequence
 154 <220> FEATURE:
 155 <223> OTHER INFORMATION: intron 9
 157 <400> SEQUENCE: 9
 158 gtgagttcct aagttccatt tttttgtaat ctttcaatgt tattttaact tttcagatca 60
 160 acatcaaaat taggttcaat tttcatcaac caaataatat ttttcatgta tatatag 117
 163 <210> SEQ ID NO: 10
 164 <211> LENGTH: 158
 165 <212> TYPE: DNA
 166 <213> ORGANISM: Artificial Sequence
 168 <220> FEATURE:
 169 <223> OTHER INFORMATION: intron 10
 171 <400> SEQUENCE: 10
 172 gtaagttttt ccactttaag aaaattacta gcactaaatt tacgaatttt aactatacaa 60
 174 ttatggatgt aaccaccatt ttaaattaat cttgaaccag acgatatgga ttacaaacat 120
 176 tcttgtttta atcggtgtgt tagctattgc atttgtag 158
 179 <210> SEQ ID NO: 11
 180 <211> LENGTH: 130
 181 <212> TYPE: DNA
 182 <213> ORGANISM: Artificial Sequence
 184 <220> FEATURE:
 185 <223> OTHER INFORMATION: intron 11
 187 <400> SEQUENCE: 11
 188 gtaaggattt ttatgatata gtatgcttat gtattttgta ctgaaagcat atcctgcttc 60
 190 attgggatat tactgaaagc atttaactac atgtaaactc acttgatgat caataaactt 120
 192 gattttgcag 130
 195 <210> SEQ ID NO: 12
 196 <211> LENGTH: 126
 197 <212> TYPE: DNA
 198 <213> ORGANISM: Artificial Sequence
 200 <220> FEATURE:
 201 <223> OTHER INFORMATION: intron 12
 203 <400> SEQUENCE: 12
 204 gtaagccatc ttcctgctta tttttataat gaacatagaa ataggaagtt gtgcagagaa 60
 206 actaattaac ctgactcaaa atctaccctc ataattgttg tttgatattg gtcttgatt 120
 208 ttgcag 126
 211 <210> SEQ ID NO: 13
 212 <211> LENGTH: 301
 213 <212> TYPE: DNA
 214 <213> ORGANISM: Artificial Sequence
 216 <220> FEATURE:
 217 <223> OTHER INFORMATION: Seq 1
 219 <400> SEQUENCE: 13
 220 cggacgatac gtgatccacc atgatagagg agccattgtg tattacgata cgcttaaact 60
 222 aatatctaag ctcggctgca agcacatcag agacgtcgtg cacttagaag agttacgca 120
 224 gtctttgtgc gacgtagcta gtaacttgaa caactgcgcc tacttctcac agttagatga 180

Some error

RAW SEQUENCE LISTING

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Input Set : A:\Sequence.txt

Output Set: N:\CRF4\08042006\J586998.raw

226 ggccgttgct gaggtccaca agactgcggt cggaggctcc ttcgcgttct gtagcatcat 240
 228 caaatacttg tcagacaaga ggctgttcag ggacctgttc ttcgtctgag ttgacgaatt 300
 230 c 301

233 <210> SEQ ID NO: 14

234 <211> LENGTH: 538

235 <212> TYPE: DNA

236 <213> ORGANISM: Artificial Sequence

238 <220> FEATURE:

239 <223> OTHER INFORMATION: NcoI-EcoRI fragment of pICH14833

241 <400> SEQUENCE: 14

242 ccattggacaa agtgataaag gcagcttttt gtggagacga tagcctgatt tacattccta 60
 244 aagggttaga cttgcctgat attcaggcgg gcgcgaacct catgtggaac ttcgaggcca 120
 246 aactcttcag gaagaagtat gggtacttct gtggtcgtta tgttattcac catgatagag 180
 248 gagccattgt gtattacgat ccgcttaaac taatatctaa gttagggtgt aaacatatta 240
 250 gagatgttgt tcacttagaa gagttacgcy agtctttgtg tgatgtagct agtaacttaa 300
 252 ataattgtgc gtatttttca cagttagatg aggcggttgc cgaggttcat aagaccgcgg 360
 254 taggcggttc gtttgctttt tgtagtataa ttaagtattt gtcagataag agattgttta 420
 256 gagatttgtt ctttgtttga taatgtcgat agtctcgtac gaacctaaag tgagtgtatt 480
 258 cctcaatctt tcgaagaagg aagagatctt gccgaaggct ctaacgaggt tagaattc 538

261 <210> SEQ ID NO: 15

262 <211> LENGTH: 636

263 <212> TYPE: DNA

264 <213> ORGANISM: Artificial Sequence

266 <220> FEATURE:

267 <223> OTHER INFORMATION: part of pICH15466

269 <400> SEQUENCE: 15

270 ggagataacc tgagcttctt cttccataat gagagcactc tcaattacac ccacagcttc 60
 272 agcaacatca tcaagtacgt gtgcaagacg ttcttccctg ctagtcaacg cttcgtgtac 120
 274 cacaaggagt tccgtgtcac tagagtcaac acttggtact gcaagttcac gagagtggat 180
 276 acgttcactc tgttccgtgg tgtgtaccac aacaatgtgg attgcgaaga gttttacaag 240
 278 gctatggacg atgctgtggc ctacaaaaag acgttagcaa tgcttaatgc cgagaggacc 300
 280 atctttcagg ataacgctgc gttaaacttt tggttcccga aagtgtgaga catggttatc 360
 282 gtccctctct ttgacgcttc tatcacaact ggtaggatgt ctaggagaga gggtatggtg 420
 284 aacaaggact tcgtctacac ggtcctaaat cacatcaaga cctatcaagc taaggcactg 480
 286 acgtacgcaa acgtgctgag cttcgtggag tctattaggt cttaggtcat aattaacggt 540
 288 gtcactgcca ggtctgaatg ggacacagac aaggcaattc taggtccatt agcaatgaca 600
 290 ttcttctctg tcacgaagct gggctcatgt caagat 636

293 <210> SEQ ID NO: 16

294 <211> LENGTH: 297

295 <212> TYPE: DNA

296 <213> ORGANISM: Artificial Sequence

298 <220> FEATURE:

299 <223> OTHER INFORMATION: part of pICH15900

301 <400> SEQUENCE: 16

302 gcggacgata cgtgatccac catgatagag gagccattgt gtattacgat ccgcttaaac 60
 304 taatatctaa gctcggctgc aagcacatca gagacgtcgt gcacttagaa gagttacgcy 120
 306 agtctttgtg cgacgtagct agtaacttga acaactgcgc ctacttctca cagttagatg 180
 308 aggcggttgc tgaggtccac aagactgcgg tcggaggctc cttcgcgttc ttagcatca 240
 310 tcaaatactt gtcagacaag aggctgttca gggacctgtt cttcgtctga gttgacg 297

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Input Set : A:\Sequence.txt

Output Set: N:\CRF4\08042006\J586998.raw

313 <210> SEQ ID NO: 17
 314 <211> LENGTH: 1419
 315 <212> TYPE: DNA
 316 <213> ORGANISM: Artificial Sequence
 318 <220> FEATURE:
 319 <223> OTHER INFORMATION: part of pICH15025 *Same as*
 321 <400> SEQUENCE: 17

322	cccagagctat	actgtacctt	cgccgaccga	ttggtactac	agtacaagaa	ggcggaggag	60
324	ttccaatcgt	gtgatctttc	caaacctcta	gaagagtcag	agaagtacta	caacgcatta	120
326	tccgagctat	cagtgcctga	gaatctcgac	tcttttgact	tagaggcggt	taagacttta	180
328	tgtcagcaga	agaatgtgga	cccggatatg	gcagcaaagg	taaatcctgg	tccacacttt	240
330	tacgataaaa	acacaagatt	ttaaactatg	aactgatcaa	taatcattcc	taaaagacca	300
332	cactttttgtt	ttgtttctaa	agtaattttt	actgttataa	caggtggctg	tagcaatcat	360
334	gaagtcagaa	ttgacgttgc	ctttcaagaa	acctacagaa	gaggaaatct	cggagtcgct	420
336	aaaaccagga	gaggggtcgt	gtgcagagca	taaggaagtg	ttgagcttac	aaaatgatgc	480
338	tccgttccc	tgtgtgaaaa	atctagttag	aggttccgtg	ccggcgtagt	gaatgtgtcc	540
340	taaggggtggt	ggtttcgaca	aattggatgt	ggacattgct	gatttccatc	tcaagagtgt	600
342	agatgcagtt	aaaaaggga	ctatgatgtc	tgcggtgtac	acaggggtcta	tcaaagttca	660
344	acaaatgaag	aactacatag	attacttaag	tgcgtcgctg	gcagctacag	tctcaaacct	720
346	ctgcaaggta	agaggtcaaa	aggtttccgc	aatgatccct	ctttttttgt	ttctctagtt	780
348	tcaagaattt	gggtatatga	ctaacttctg	agtgttcctt	gatgcatatt	tgtgatgaga	840
350	caaagtgttg	ttctatgttt	taggtgctta	gagatgttca	cggcggtgac	ccagagtcac	900
352	aggagaaatc	tggagtgtgg	gatgttagga	gaggacgttg	gttacttaaa	cctaatacgca	960
354	aaagtcacgc	gtggggtgtg	gcagaagacg	ccaaccacaa	gttggttatt	gtgttactca	1020
356	actgggatga	cggaaagccg	gtttgtgatg	agacatgggt	caggggtggcg	gtgtcaagcg	1080
358	attccttgat	atattcggat	atgggaaaac	ttaagacgct	cacgtcttgc	agtccaaatg	1140
360	gtgagccacc	ggagcctaac	gccaaagtaa	ttttggtcga	tgggtgttccc	ggttgtggaa	1200
362	aaacgaagga	gattatcgaa	aaggtaagtt	ctgcatttgg	ttatgctcct	tgcatttttag	1260
364	gtgttcgtcg	ctcttccatt	tccatgaata	gctaagattt	tttttctctg	cattcattct	1320
366	tcttgctca	gttctaactg	tttggtgat	ttttgtttta	attattgcta	caggtaaact	1380
368	tctctgaaga	cttgatttta	gtccctggga	aggaagctt			1419

371 <210> SEQ ID NO: 18
 372 <211> LENGTH: 1159
 373 <212> TYPE: DNA
 374 <213> ORGANISM: Artificial Sequence
 376 <220> FEATURE:
 377 <223> OTHER INFORMATION: part of pICH15034
 379 <400> SEQUENCE: 18

380	ctgcaggtaa	aatattggat	gccagacgat	attctttctt	ttgatttgta	actttttcct	60
382	gtcaaggctg	ataaatttta	tttttttgg	taaaaggctg	ataatttttt	tttggagcca	120
384	ttatgtaatt	ttcctaatta	actgaaccaa	aattatacaa	accaggtttg	ctggaaaatt	180
386	tgggtgcaat	gatcaaaaaga	aacatgaatg	cgccggattt	gacagggaca	attgacattg	240
388	aggatactgc	atctctggtg	gttgaaaagt	tttgggattc	gtatgttgac	aaggaaattta	300
390	gtggaacgaa	cgaaatgacc	atgacaaggg	agagcttctc	caggttaagga	cttctcatga	360
392	atattagtg	cagattagtg	ttgttaaagt	ctttggttag	ataatcgatg	cctcctaatt	420
394	gtccatgttt	tactggtttt	ctacaattaa	aggtggcttt	cgaaacaaga	gtcatctaca	480
396	gttggtcagt	tagcggactt	taactttgtg	gatttgccgg	cagtagatga	gtacaagcat	540
398	atgatcaaga	gtcaaccaa	gcaaaagtta	gacttgagta	ttcaagacga	atatacctgca	600
400	ttgcagacga	tagtctacca	ttcgaaaaag	atcaatgcga	ttttcgttcc	aatgttttca	660

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Input Set : A:\Sequence.txt

Output Set: N:\CRF4\08042006\J586998.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date